

```
restricted (late, very late) library()
{

    while (more users)
    {

        determine status of user's book

        if not overdue
        {
            do nothing
        }
        if late
        {
            remind_late_user(user)
        }

        if very late
        {
            remind_very_late(user)
        }
    }

    while(more letters)
    {
        send_letter_to_printer(letter)
    }
}

restricted remind_late_user(user)
{
    lookup user's address, book name; number of days overdue by; outstanding
    fine; waiting list; borrower history
    calculating fine due
    retrieve late text
    build letter in volatile memory
}

restricted remind_very_late_user(user)
{
    lookup user's address; book name; number of days overdue by, waiting list
    calculating fine due
    retrieve very late text
    build letter in volatile memory
}

send_letter_to_printer(letter)
{
    print letter
}
```

Figure 1 }

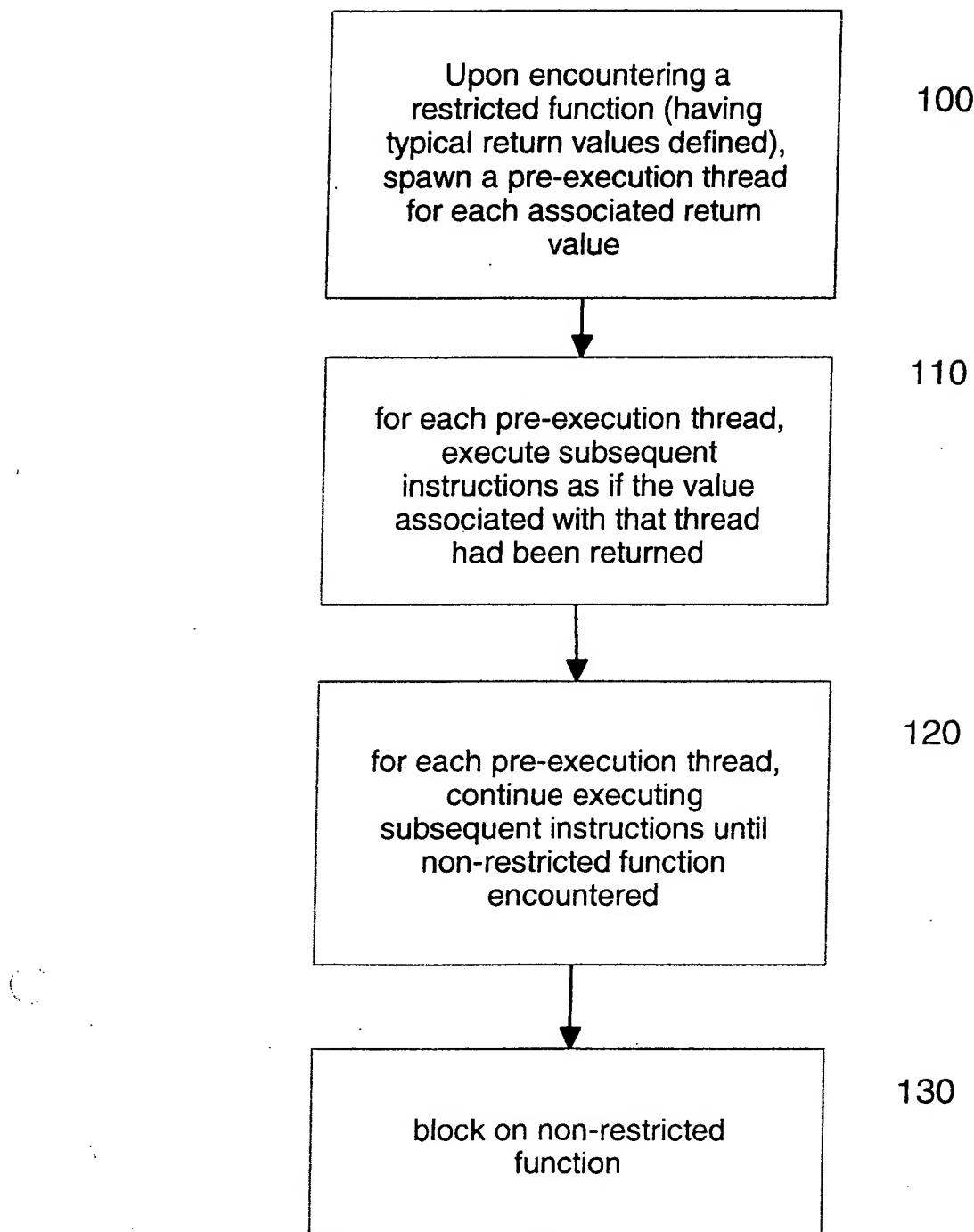


Figure 2a

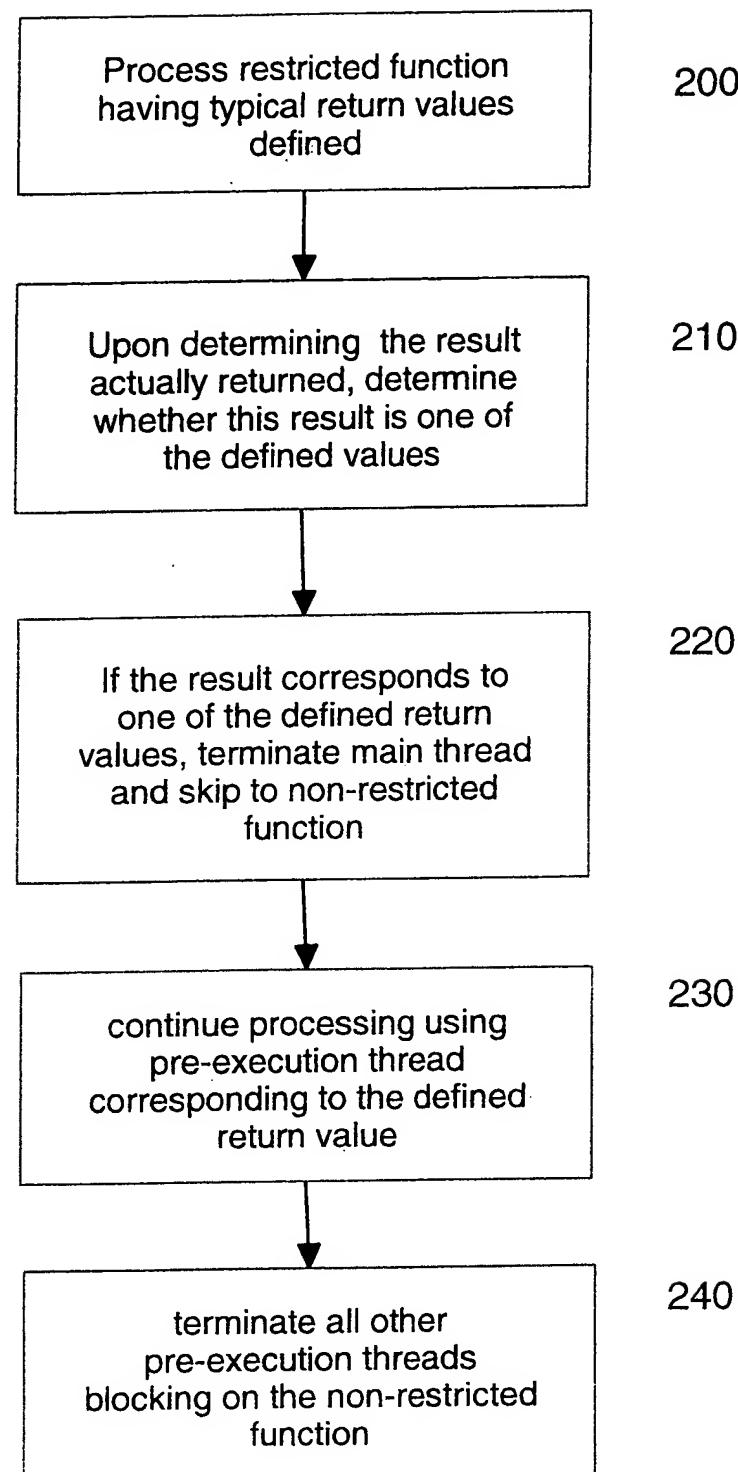


Figure 2b

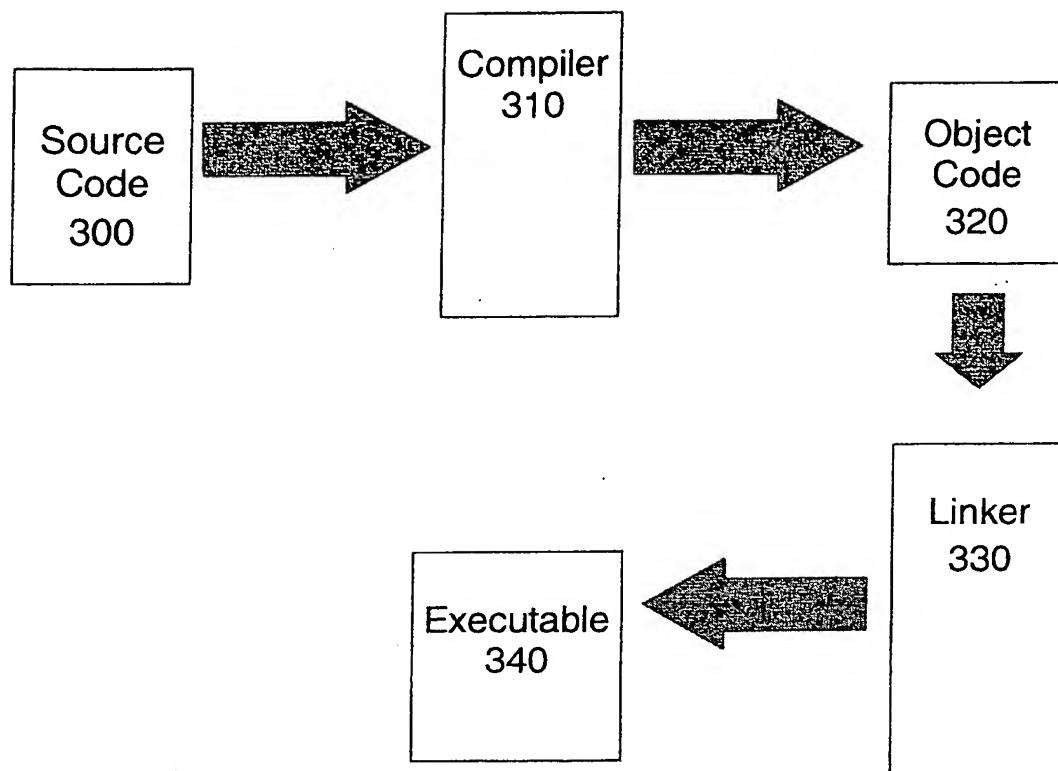


Figure 3